

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Darrel L. Turner

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Docket No.: FISHBAR-5

Application No.: 08/532,046

Art Unit: 3501

For: HIGH HARDNESS BORON STEEL ROTARY BLADE

Examiner: T. MELIUS

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AUG 12 1997

GROUP 3500

DECLARATION OF DARREL L. TURNER

Darrel L. Turner, declares as follows:

1. Attached is a chart entitled "Comparison of Charpy V-Notch (CVN) Toughness for Blade Materials," representing averaged results of toughness tests on heat treated 5150, 1566 and 10B38 steel specimens at increasing levels of hardness.
2. The chart includes a line identified as "10B38 Expected" which includes averaged experimental data for yield strengths of of 160 Ksi and below, and a hypothetical line showing projected decreasing toughness based on the experimental data for 5150 and 1566 steels as shown.
3. The line identified as "10B38 Experimental" shows actual averaged experimental results, indicating that in actual experimental results, the toughness of the heat treated 10B38 is higher than what would have been expected based on projections from the results of tests on conventional rotary blade materials.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

7/23/97

Date

  
Darrel L. Turner

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